



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

March 8, 2019

Wendy A. McCombie  
Agent for Solvay Chemicals, Inc.  
c/o Lewis and Harrison  
2461 SOUTH CLARK STREET, SUITE 710  
ARLINGTON, VA 22202

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – Acceptable  
Revision to the Application Rates under the Direction for Use.  
Product Name: PAK 27 Algaecide  
EPA Registration Number: 68660-9  
Application Date: 08/03/2018  
OPP Decision Number: 543408

Dear Ms. McCombie:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false

Page 2 of 2  
EPA Reg. No. 68660-9  
OPP Decision No. 543408

or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Alex Horansky by phone at (703) 347-0128 or via email at [horansky.alex@epa.gov](mailto:horansky.alex@epa.gov).

Sincerely,

A handwritten signature in blue ink that reads "Andrew C. Bryceland". The signature is written in a cursive style with a large, sweeping flourish at the end.

Andrew Bryceland, Team Leader  
Biochemical Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure

*Bold, italicized text is information for the reviewer and considered not part of the label*  
[Bracketed text denotes optional or alternate language]

*Master Label*

# PAK<sup>®</sup> 27 Algaecide

<b>ACCEPTED</b>
03/08/2019
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 68660-9

<b>Sub-label A: Commercial Use (pages 2-6)</b>
<b>Sub-label B: Residential Use (pages 7-11)</b>

ACTIVE INGREDIENT:  
Sodium Carbonate Peroxyhydrate .....85.0%  
OTHER INGREDIENTS: .....15.0%  
Total .....100.0%

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER/PELIGRO**

Made in the USA

Manufactured and Distributed by: SOLVAY CHEMICALS, INC.  
3737 Buffalo Speedway, Suite 800,, Houston TX 77098 USA  
(713) 525-6500

[For [Transport] Emergency, call CHEMTREC<sup>®</sup> (800) 424-9300]

EPA No. 68660-9  
Net Content: \_\_\_\_ pounds (\_\_\_\_ kgs)

EPA Est. No. 68660-TX-001  
Lot. No.

**Sub-Label A: Commercial Use**

# PAK<sup>®</sup> 27 Algaecide

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Sodium Carbonate Peroxyhydrate .....85.0%  
OTHER INGREDIENTS: .....15.0%  
Total .....100.0%

**KEEP OUT OF REACH OF CHILDREN  
DANGER/PELIGRO**

## FIRST AID

<b>IF IN EYES:</b> <ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first five minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>IF ON SKIN OR CLOTHING:</b> <ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>IF INHALED:</b> <ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>IF SWALLOWED:</b> <ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Drink promptly large quantities of water.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything to an unconscious person.</li></ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. <b>HOT LINE NUMBER 24 Hour emergency call (800) 424-9300</b>
<b>NOTE TO PHYSICIAN</b> Probable mucosal damage may contraindicate the use of gastric lavage.

[See [side][and][back] panel for [First Aid] [and] [Directions]]  
Made in the USA

Manufactured and Distributed by: SOLVAY CHEMICALS, INC.  
3333 Richmond Avenue, Houston TX 77098 USA  
(713) 525-6500  
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EPA No. 68660-9  
Net Content: \_\_\_\_\_ pounds (\_\_\_\_\_ kgs)

EPA Est. No. 68660-TX-001  
Lot. No.

***Sub-Label A: Commercial Use***

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER: CORROSIVE.** Causes irreversible eye damage and causes skin burns. Harmful if swallowed or inhaled. Do not get in eyes, on skin, or clothing. Wear goggles or face shield and rubber gloves when handling this product. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. When prolonged or frequently repeated contact could occur, use chemically resistant gloves and full body clothing

**PHYSICAL AND CHEMICAL HAZARDS**

Oxidizing agent. Contact with combustible materials may cause fire. Wet product decomposes exothermically and may cause combustion of organic materials. Pressure may increase due to decomposition in confined spaces or containers.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to birds. When applying PAK 27 to water bodies, avoid solid particles from falling on nearby ground where birds and feed may be present. Undissolved particles of sodium carbonate peroxyhydrate may be corrosive to beaks of birds.

***For container sizes 50 lbs or greater***

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of U.S. EPA. For additional information, refer to the product Material Safety Data Sheet.

***Bold, italicized text is information for the reviewer and considered not part of the label***  
**[Bracketed text denotes optional or alternate language]**

**Sub-Label A: Commercial Use**

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**Note to Reviewer:**

***For large size water bodies, the following label instructions will be used.***

For control of blue-green algae in lakes, ponds, drinking water reservoirs, irrigation, drainage and conveyance ditches, canals, laterals, estuaries, bayous, lagoons, water gardens and water features, impounded water and waste water and aquaculture.

Apply 3.0 to 100 pounds per acre - foot (9.2 to 306.9 pounds/ million gallons) of water (equivalent to 0.3 to 10.2 ppm hydrogen peroxide) by broadcasting or use of a mechanical spreader.

**Note:** Algae control is more easily achieved if treated soon after growth starts. Larger amounts of product may be needed to treat heavier blooms. As little as 2.5 pounds per acre - foot could be used for algaestatic treatment.

**Water Treatment  
 MAXIMUM Dosage Rate by Volume**

<b>Gallons</b>	250	500	750	1000	2000	10,000	100,000	325,851
<b>Dosage</b>	1.2 oz. [(34g)]	2.4 oz. [(68g)]	3.5 oz. [(100g)]	4.8 oz.	9.5 oz.	3 lbs.	30 lbs.	100 lbs.
<b>Acre-Ft</b>	1	9	15	30	60	75	100	
<b>Dosage Lbs.</b>	100	900	1500	3000	6000	7500	10,000	

1LB= 454 grams (g)      1 Acre-Foot = 325851 gallons

**Note:** Decaying algae can deplete dissolved oxygen which can lead to fish kill, if excessive. Apply with 8 to 10 hours of daylight remaining. Do not reapply within 48 hours. If treating a large lake or heavy bloom, treat 1/3 to 1/2 of the area and wait 2 to 3 days before treating remainder of water. Consult with the State agency with primary responsibility for regulating pesticides before applying to public waters to determine if a permit is needed.

***Bold, italicized text is information for the reviewer and considered not part of the label***  
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### **Sub-Label A: Commercial Use**

#### **Note to Reviewer:**

**For small size water bodies, the following label instructions will be used.**

For control of algae in [ponds], [water gardens], [water features], [standing water], [watering tanks], [storage tanks] and [water collectors].

**For spot treatment:** Apply this product directly over the infested area. Re-treatment is required when heavy growth occurs.

**Preventative Dose:** Dependent on algae type, apply 1 to 9 tablespoons per 1,000 gallons of water by broadcast, spreader or spray dissolved solution. Apply treatments twice weekly for best results.

**For severe algae bloom or infestation:** Treat when growth first begins to appear if possible. Apply 1 to 9 tablespoons per 1,000 gallons of water by broadcast, spreader or spray dissolved solution. Re-treat areas if re-growth or new growth begins to appear. Allow 2 – 3 days between subsequent treatments.

Broadcast this product directly on to the water surface, from shore or dissolve and spray any algae matted at surface. Water features equipped with an aerator, or a waterfall that creates turbulence facilitates rapid and adequate mixing when treating entire water volume.

#### **SMALL SIZE WATER BODY DOSAGE CHART**

Pond Size	String Algae Treatment Rates	Planktonic [Pea-soup] Algae Treatment Rate-Heavy Growth	Planktonic [Pea-soup] Algae Treatment Rate-Maintenance Dose
50 gallons	1.25 tsp	1.25 tsp	0.25 tsp
100 gallons	2.5 tsp	2.5 tsp	0.50 tsp
500 gallons	4 TBSP	4 TBSP	1 TBSP
1,000 gallons	9 TBSP	9 TBSP	2 TBSP
10,000 gallons	3 pounds	3 pounds	$\frac{3}{4}$ pound

1 gram = 0.035 ounces 1 ounce = 2 TBSP)  
tsp = teaspoon TBSP = tablespoon

Check pH levels before applying product. Product can raise pH levels. Apply early in the morning and turn off circulation during treatment. Application should be on affected areas, fountains or circulation can be turned back on after 20 minutes. Recheck pH as necessary.

### **Sub-Label A: Commercial Use**

#### **STORAGE AND DISPOSAL**

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE AND DISPOSAL

**STORAGE:** Store in original, closed container in a dry location away from heat and out of direct sunlight. Keep away from combustible material. Do not return unused product to container.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture, or rinsate, is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

#### **CONTAINER HANDLING:**

**50 lb Bags/Sacks:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Completely empty sack [bag] into application equipment. Then offer for recycling if available or dispose of empty sack [bag] in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**2000 lb Bulk Bag:** Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling if available or dispose of liner in a sanitary landfill or by incineration, or if allowed by state and local authorities by burning. If burned, stay out of smoke. If bulk bag is contaminated and cannot be reused, dispose of it in the manner required for its liner.

**Plastic Containers (all sizes):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available or puncture and dispose of in sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### **[WARRANTY DISCLAIMER**

To the extent consistent with applicable law neither the manufacturer nor the seller makes any warranty, expressed or implied concerning the use of this product other than indicated on the label. To the extent consistent with applicable law buyer assumes risk of use of this material when such use is contrary to label instructions. Read and follow the label directions].



Certified to  
NSF/ANSI 60

*NSF logo will appear on labels for Drinking Water Treatment*

**Sub-Label B: Residential Use**

# PAK<sup>®</sup> 27 Algaecide

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[See [side][and][back] panel for [First Aid] [and] [Directions]]  
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***Sub-Label B: Residential Use***

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This pesticide is toxic to birds. When applying PAK 27 to water bodies, avoid solid particles from falling on nearby ground where birds and feed may be present. Undissolved particles of sodium carbonate peroxyhydrate may be corrosive to beaks of birds.

**Sub-Label B: Residential Use**

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**Note to Reviewer:**

**For small size water bodies, the following label instructions will be used.**

For control of algae in [ponds], [water gardens], [water features], [standing water], [watering tanks], [storage tanks] and [water collectors].

**For spot treatment:** Apply this product directly over the infested area. Re-treatment is required when heavy growth occurs.

**Preventative Dose:** Dependent on algae type, apply 1 to 9 tablespoons per 1,000 gallons of water by broadcast, spreader or spray dissolved solution. Apply treatments twice weekly for best results.

**For severe algae bloom or infestation:** Treat when growth first begins to appear if possible. Apply 1 to 9 tablespoons per 1,000 gallons of water by broadcast, spreader or spray dissolved solution. Re-treat areas if re-growth or new growth begins to appear. Allow 2 – 3 days between subsequent treatments.

Broadcast this product directly on to the water surface, from shore or dissolve and spray any algae matted at surface. Water features equipped with an aerator, or a waterfall that creates turbulence facilitates rapid and adequate mixing when treating entire water volume.

**SMALL SIZE WATER BODY DOSAGE CHART**

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500 gallons	4 TBSP	4 TBSP	1 TBSP
1,000 gallons	9 TBSP	9 TBSP	2 TBSP
10,000 gallons	3 pounds	3 pounds	$\frac{3}{4}$ pound

1 gram = 0.035 ounces    1 ounce = 2 TBSP  
tsp = teaspoon    TBSP = tablespoon

Check pH levels before applying product. Product can raise pH levels. Apply early in the morning and turn off circulation during treatment. Application should be on affected areas, fountains or circulation can be turned back on after 20 minutes. Recheck pH as necessary.

### **Sub-Label B: Residential Use**

#### KEY WATER TREATMENT FACTORS AND CONSIDERATIONS

- Wait several hours before using other [brand] water additives, such as bacteria or enzyme products.
- Do not tank mix with aquatic herbicides or algaecides containing copper or bromides. Apply this product at least one day prior to other products.
- Remove organic matter that has risen to the surface. Unremoved organic matter can stimulate algae re-growth.
- Non-target plants will suffer contact burn if undiluted granules are accidentally spilled on them. Do not apply where grass, ornamentals and other foliage could be affected.
- Excessive decaying algae can deplete dissolved oxygen which can lead to fish kill. Apply with 8 to 10 hours of daylight remaining. Do not reapply within 48 hours. If treating a larger pond or heavy algae growth, treat 1/3 of the area and wait 2 to 3 days before treatment remainder of water. Consult with the state agency with primary responsibility for regulating pesticides before applying to public waters to determine if a permit is needed.
- Effects of product during treatment are bubbling (not foaming), bleaching or discoloration of algae and floating organic matter.
- Successful treatments are when material is in direct contact with algae.
- Dissolved product or liquid treatments do not sink as quickly as the granular product.
- A second application may be necessary when surface algae mats are formed and there are bottom growing or suspended algae in the pond.
- Warmer months require more frequent treatments.

#### STORAGE AND DISPOSAL

**STORAGE:** Store in original container and place in a locked storage area.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture, or rinsate, is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. **If empty:** Place in trash, or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

### ***Sub-Label B: Residential Use***

#### ***Optional Marketing Claims***

- [This product] [product name] can be used on a regular basis to prevent algae growth in backyard ornamental ponds or water gardens.
- [This product] [product name] [it] can [also] be used as a remedial treatment for existing algae infestation.
- Can be used with fish [koi] in the treatment area [pond] [lake]
- Will not harm plants [lily pads] when used according to directions
- Treats up to (XX gallons)
- 2TBSP per 1000 gallons
- Prevents and [kills] [controls] [destroys] algae
- Treats string algae [filamentous algae]
- Fast acting algaecide, easily dissolved for spray application
- Concentrated granular formulation
- Copper-free formulation
- Effects of product during treatment are bubbling (not foaming), bleaching or discoloration of algae and floating organic matter. Comply with product dosage/application instructions minimizes potential for bleaching dark containers/lines.
- Oxygenates water
- [Options for application] broadcast, spreader & spray
- Can be used in flowing water applications
- Application techniques adapt to water treatment size
- [Clean][Maintain][Enhance]
- For Indoor and Outdoor residential use.

#### **[WARRANTY DISCLAIMER**

To the extent consistent with applicable law neither the manufacturer nor the seller makes any warranty, expressed or implied concerning the use of this product other than indicated on the label. To the extent consistent with applicable law buyer assumes risk of use of this material when such use is contrary to label instructions. Read and follow the label directions.]